M. A. R. 57 (Rule 116)

Measurement Book

No. B 341401

Serial No. .....

Name of Work providing improvement to roads & drains at industrial area balance portion at Abhgarej Lakhmipura Main road in ward no-12 in SSD. From ..... To .....

Name of Contractor or nature of Agency Surendra B.T. JC:- 012-15- 00017

Date of commencement of work NOEE/DD/HO/345/14-15 D:-31/3/15

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Premeasurement recorded on 4/4/2015						
4.1	Earth work excavation by manual means in hard soil mixing and average.						
	B.S. Slab drain.						
	1st Main Road (CWC factory Road)	1	23.0	0.70	0.70	= 11.87 cum	
		1	30.0	0.70	0.70	= 14.70 cum	
		1	30.0	0.70	0.70	= 14.70 cum	
		1	30.0	0.70	0.70	= 14.70 cum	
		1	30.0	0.70	0.70	= 14.70 cum	
		1	30.0	0.70	0.70	= 14.70 cum	
		1	13.40	0.70	0.70	= 6.57 cum	
		1	30.0	0.70	0.70	= 14.70 cum	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	26.0	0.70	0.70	= 12.74 cum	
		1	25.0	0.70	0.70	= 12.25 cum	
		2	23.0	0.70	0.70	= 22.54 cum	
		2	30.0	0.70	0.70	= 29.40 cum	
		2	30.0	0.70	0.70	= 29.40 cum	
		2	30.0	0.70	0.70	= 29.40 cum	
		2	30.0	0.70	0.70	= 29.40 cum	
		2	7.40	0.70	0.70	= 7.25 cum	
		2	30.0	0.70	0.70	= 29.40 cum	
		2	14.0	0.70	0.70	= 13.72 cum	
		2	22.0	0.70	0.70	= 21.56 cum	
		2	27.0	0.70	0.70	= 26.46 cum	
						368.86 cum	

Abd & Fd

Jhuth

Basi N.K.

M. A. R. 57 (Rule 116)
Measurement Book

No. B

341402

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
7.8.	Earth work excavation by manual means in ordinary soil Pre measurement recorded on 15/4/2015						
	1st Main Road						
	CNC Factory Road.	1	23.0	7.6+8.0 / 2	0.35	69.79 cum	
		1	30.0	8.0+7.3 / 2	0.35	80.32 cum	
		1	30.0	7.3+6.6 / 2	0.35	78.97 cum	
		1	30.0	6.6+7.0 / 2	0.35	71.40 cum	
		1	30.0	7.0+6.0 / 2	0.35	68.85 cum	
		1	30.0	6.0+6.0 / 2	0.35	63.0 cum	
		1	13.40	6.7+9.0 / 2	0.35	32.18 cum	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Krishnappa industrial Estate road.	1	23.0	4.0	0.35	32.20 cum	
		1	30.0	$\frac{6.7+7.0}{2}$	0.35	71.93 cum	
		1	30.0	$\frac{7.0+7.6}{2}$	0.35	76.65 cum	
		1	30.0	$\frac{7.6+6.5}{2}$	0.35	74.03 cum	
		1	30.0	$\frac{6.5+6.3}{2}$	0.35	67.80 cum	
		1	7.40	$\frac{6.3+6.3}{2}$	0.35	16.32 cum	
						798.86 cum	
				Limited to tender		723.45 cum	

Clg x FC

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಕೆಬ್ಬಹಳ್ಳಿ ಉಪವಿಬಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

15/4/15

Paid N.C.
15/4/2015

M. A. R. 57 (Rule 116)
Measurement Book

No. B

341403

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Premeasurement Record as on 29/4/2015						
I-1	Earth work excavation by manual means						
	Abbigere Main Road 3rd cross.	1	6.40	2.0	1.20	15.36 cum	
		1	5.60	2.0	1.80	13.44 cum	
						28.80 cum	
	Checked ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಶಿಬ್ಬಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಎಸ್ ಎಂ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು						Recd. Note 29/4/15

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Pre measurements recorded on 22/5/2015						
I-3	providing laying in position cement concrete 1:4:8 with PC						
		1	6.40	2.0	0.15	1.92 cum	
		1	5.60	2.0	0.15	1.68 cum	
						3.60 cum	
						@ ~~4800-00~~	
						By ~~₹ 17280-00~~	
						Rani N.K 22/5/15	

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಕೆಬ್ಬಹಳ್ಳಿ ಉಪವಿಭಾಗ, ಮಾಗಡಿರಸ್ತೆ ಬಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್ ಎಂ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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Measurement Book

No. B

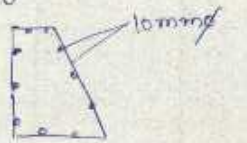
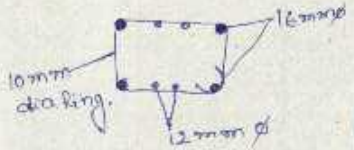
341404

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	23/5/2015	8
J-C	providing TMT Steel reinforcement for R.C.C. Wdrk.						
		2	3.50	224.0	0.62	= 138.88 Kgs	
		2	6.40	243.2	0.62	= 150.78 Kgs	
		2	3.50	224.0	0.62	= 138.88 Kgs	121.5
		2	5.60	218.80	0.62	= 131.93 Kgs	
		4	2.80	144.0	1.58	= 227.52 Kgs	
		4	2.80	144.0	0.89	= 128.16 Kgs	
		10	2.80	380.0	0.62	= 235.60 Kgs	
						870.67 Kgs	
				Limited to tender 6.13 MT			

Paid Rs. ...
23/5/2015

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
I-7	Providing & removing Centering Shuttering &						
		2×2	6.40		× 1.10	= 28.160 sqm	
		2×1	5.60		× 1.10	= 24.640 sqm	
						52.800 sqm	
						Total N.Y.	
						23/5/15	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

341405

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Pre measurement recorded on 29/8/2015						
3-9	Providing, laying spreading & compacting stone aggregate to water bound macadam grading II						
		1	23.0	$\frac{7.6+8.0}{2}$	0.15	= 26.91 cum	
		1	30.0	$\frac{8.0+7.3}{2}$	0.15	= 34.43 cum	
		1	30.0	$\frac{7.3+6.6}{2}$	0.15	= 31.28 cum	
		1	30.0	$\frac{6.6+7.0}{2}$	0.15	= 30.60 cum	
		1	30.0	$\frac{7.0+6.0}{2}$	0.15	= 29.85 cum	
		1	30.0	$\frac{6.0+6.70}{2}$	0.15	= 28.58 cum	
		1	13.46	$\frac{6.4+7.0}{2}$	0.15	= 13.77 cum	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	23.0	4.0	0.15	= 13.80 cum	
		1	30.0	$\frac{6.7+7.0}{2}$	x 0.15	= 30.83 cum	
		1	30.0	$\frac{7.0+7.6}{2}$	x 0.15	= 32.85 cum	
		1	30.0	$\frac{7.6+6.5}{2}$	x 0.15	= 31.73 cum.	
		1	30.0	$\frac{6.5+6.3}{2}$	x 0.15	= 28.80 cum.	
		1	7.40	$\frac{6.3+6.3}{2}$	x 0.15	= 6.97 cum	
						310.05 c.m.	

Ch & FC
24/5/15
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಬಿ.ಎಂ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

Ravi N.K.
29/5/15

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. 1st & final. BR 343/31.10.2015 341406

Name of Work Providing improvements to roads & drains at Industrial area balance portion at Abbigere Lake, Hulipara main road in ward no-12 GBP From To

Name of Contractor of nature of Agency Surendra B.T. Sc:- 012-15-00014 Est cost:- 20-0

Date of commencement of work No.EE/DD/WO/347/14-15 D:- 31/3/2015

Date of completion:- 30/6/2015

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	Date of 2 Recording 30/9/2015		4	5	6	7	8
5-1.	Earth work excavation by manual means in hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.50m excavated surface levelled & sides neatly dressed the disposed earth to be levelled neatly after breaking of clods complete as per specifications. vide pg no. 341401/2 & 341403/1 of this M.B					368.36 @ 105.00	Rs — 38730.00
5-2.	providing granite slabs selected quality roughly dressed and fixed in cement mortar (1:6) including pointing curing etc; complete as per specification &						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	~~Qty~~	1	23.00	1.80		41.40 Sqm	
		1	~~23.00~~			~~54.05 Sqm~~	
		1	30.0	1.80		= 54.05 Sqm	
		1	30.0	1.80		= 54.05 Sqm	
		1	30.0	1.80		= 54.05 Sqm	
		1	30.0	1.80		= 54.05 Sqm	
		1	30.0	1.80		= 54.05 Sqm	
		1	30.0	1.80		= 54.05 Sqm	
		1	13.40	1.80		= 24.12 Sqm	
		1	30.0	1.80		= 54.0 Sqm	
		1	26.0	1.80		= 46.80 Sqm	
		1	25.0	1.80		= 45.0 Sqm	
		2	23.0	1.80		= 82.80 Sqm	

Measurements checked & found correct

EE(D) 1st 30/9/X

M. A. R. 57 (Rule 116)
Measurement Book

No. B

341407

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Measurements checked and found correct EE(D) 30/9/18	2	30.0	1.80		= 108.0 Sqm	
		2	30.0	1.80		= 108.0 Sqm	
		2	30.0	1.80		= 108.0 Sqm	
		2	30.0	1.80		= 108.0 Sqm	
		2	7.40	1.80		= 26.64 Sqm	
		2	30.0	1.80		= 108.0 Sqm	
		2	14.0	1.80		= 50.40 Sqm	
		2	22.0	1.80		= 79.20 Sqm	
						1260.36 Sqm	
						1249.80	

@ 639 = 86 Rs- 798238 : 00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
I-3.	Providing and laying in position plain cement concrete of mix 1:4:8 with opc cement @ 180 Kgs with 40 mm & down size graded granite metal coarse aggregate @ 0.86 cum and fine aggregate @ 0.58 cum machine mixed concrete laid in layers not exceeding 15 cms thick well compacted in foundation and plinth cost of all materials labour, Hire of machinery curing complete as per specifications. Qty vide pg no 34/4/03/2 of this M.B.					3.60 cum @ 4800=00	
							HJ – 17280=00
I-A.	Providing & laying cement concrete using 20 mm & down size granite Jelly of ready mixed concrete						

M. A. R. 57 (Rule 116)
Measurement Book

No. B

341408

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(RMC) for R.C.C. Works laid in 15cms thick layers and well compacted vibrating, curing finishing with necessary cement mortar form works & Scaffoldings to withstand. pumping of concrete with all lead & lift etc., complete. ~~R.M.C. M-20 (1:1.5:3)~~ for raft foundation, column ~~footing~~ Ro @ 240 kgs with 20 mm & down size graded granite metal coarse aggregates @ 0.848 cum & fine aggregate 0.459 cum machine mixed concrete laid in layers not exceeding 15 cms thick well compacted in foundation plinth & all including cost of materials labour complete as per specifications						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		2 ×	6.40 ×	$\frac{0.75+0.45}{2}$ ×	0.90 =	6.91 cum	
		2 ×	5.60 ×	$\frac{0.75+0.45}{2}$ ×	0.90 =	6.04 cum	
						12.96 cum	
					@	5300:00	
						~~5327=68~~	
						Rs. 68688:00	
I.S	Providing & laying cement concrete using 20mm & down size granite jelly of RMC for R.C.C. works laid in 15cm thick layers and well compacted vibrating curing finishing with necessary cement mortar form works and scaffoldings to with stand pumping of concrete with all lead & lift etc., complete RMC M-20 (1:1:5:3) for ~~raft~~ foundation, Column footing main & secondary beam Complete as per specification						

M. A. R. 57 (Rule 116)
Measurement Book

No. B

341409

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		20	× 1·80	× 0·60	× 0·23 =	4·97 cum	
					@	5800·00	
						Rs - 28814·00	
	16. Providing TMT Steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking placing in position, lapping and/or welding wherever required tying with binding wire & anchoring to the adjoining members wherever necessary complete as per design.						
	as vide pg no. 341402/1 of this MB.					8·13 cft.	
					@	7975·00	
						Rs - 19884·00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
I.7.	providing & removing. Centering shuttering Strutting Propping etc., and removal of form work for vertical Surface Such as walls of any thickness including attached Pilasters, buttresses plinth and String courses cost of all materials labour complete as per specifications.						
	Qty vide Pg no. 34140 4/2 of this M.B.					52.80 cum @ 293.00	Rs- 18980-00
J.8.	Earth work excavation by manual means in ordinary Soil involving an average horizontal throw upto 2 m and an average lift upto 0.50m excavated Surface levelled & Sides neatly dressed the disposed earth to be leveled neatly after breaking of clods complete as per Specifications.						15470-

Serial No. .....
Name of Work .....
Name of Contractor or nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Qty vide Pg no. 34140 4/2
5.9	Providing laying ... aggregates of ... specifications including ... hand packing rolling ... 8-10 tonnes in stages ... & brooming required ... fill up the interstices ... compacting to the required

M. A. R. 57 (Rule 116)
Measurement Book

No. B

341410

Serial No. .....

Name of Work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty vide pg no. 341402/2 of this M.B.					723.45 cum @ 75=00 Rs- 54259=00	
19	Providing laying spreading and compacting stone aggregates of specific sizes to water bound macadam specifications including spreading in uniform thickness hand packing rolling with 3 Wheeled steel/vibratory roller 8-10 tonnes in stages to proper grade & camber applying & brooming requisite type of screening, binding materials fill up the interstices of coarse aggregates, watering & compacting to the required density complete as per specification grading I						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	~~Qty~~ vide pg no. 341405/2	of	this M.B.			~~155.02 cum~~ @ ~~161~~ 310.05 cum @ 1540=00 Rs:- 477477-0	
I/a	providing, laying spreading and compacting stone aggregates of specific sizes to water bound macadam specifications including spreading in uniform thickness hand packing rolling with 3 wheeled steel / vibratory roller 8-10 tonnes in stages to proper grade & camber applying & brooming screening/binding materials to of coarse aggregates watering						

M. A. R. 57 (Rule 116)
Measurement Book

No. B

341411

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Required density complete as per specifications grading III						
		1	× 23.0 ×	$\frac{7.6+8.0}{2}$	× 0.075	= 13.46 cum	
		1	× 30.0 ×	$\frac{8.0+7.3}{2}$	× 0.075	= 17.21 cum	
		1	× 30.0 ×	$\frac{7.3+6.6}{2}$	× 0.075	= 15.64 cum	
		1	× 30.0 ×	$\frac{6.6+7.0}{2}$	× 0.075	= 15.30 cum ~~14.63 cum~~	
		1	× 30.0 ×	$\frac{7.0+6.6}{2}$	× 0.075	= 14.63 cum	
		1	× 30.0 ×	$\frac{6.0+6.7}{2}$	× 0.075	= 14.29 cum	
		1	× 13.40 ×	$\frac{6.7+7.0}{2}$	× 0.075	= 6.88 cum	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	23.0	$\frac{4.0+4.0}{2}$	0.075	6.90 cum	
		1	30.0	$\frac{6.7+7.0}{2}$	0.075	15.41 cum	
		1	30.0	$\frac{7.0+7.6}{2}$	0.075	16.43 cum	
		1	30.0	$\frac{7.6+6.5}{2}$	0.075	15.86 cum	
		1	30.0	$\frac{6.5+6.3}{2}$	0.075	14.40 cum	
		1	7.40	$\frac{6.3+6.3}{2}$	0.075	3.50 cum	
						169.90 cum	
				obg ld tender		155.02 cum	
						@ 1615=00	Rs. 250357.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B

341412

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
J-1	Carriage of mixed materials 10 Kms Qty vide item ⑨ + ⑩					465.07 cum @ 59-00 Rs- 27439-00	
J-V	Disposal of debris to the final place of disposal with all lead & lift and as direction by the Engineer incharge of the work. Qty vide item no ① + ⑧.					1092.31 cum @ ₹3-00 Rs- 79739-00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Total Amount:- 190 8895=00.					190 5387=00	
	Ravi. N.K. 30/9/15						
	certificate						
	1) certified that contractor has done the work Satisfactorily.						
	2) certified that contractor has removed all debris from work spot						
	3) certified that there is no due work from contractor side.						
	Ravi. N.K. 30/9/15						

Audited and admitted for Rs. 1905387
Passed by Cheque for Rs. 1771324
1770424=00

M. A. R. 57 (Rule 116)
Measurement Book

No. B

341413

Serial No. .....

Name of Work ..... From ..... To .....

Name of Contractor of nature of Agency 134963

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	ABBIGERE - LAKSHMIPURA MAIN ROAD		186.40				
	1ST MAIN ROAD (INK FACTORY ROAD)						
	CROSS				44m		
	CROSS						
	MAIN ROAD						

Paid. N.K. 30/9/15

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಪೀಣ್ಯ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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